

SYNOPSIS OF VILLAGE OF SAUGET SEWER STATUS
PRESENTATION TO THE ASSOCIATION

MEETING DATES: January 19, 1990, 11:00 A.M. and
February 8, 1990, 3:00 P.M.

History:

A brief history of the sewer system over the years was presented. In the early eighties, many sinkholes and settlements occurred resulting from infiltration into the sewer system due to deterioration of the sewer system. These conditions became evidenced as a result of storm water and high ground water table conditions. In this time frame, basement flooding in the residential areas occurred with a high degree of frequency. A storm water report for the residential area was prepared by PHWA utilizing a part of the park for a detention pond. This detention basin was later revised eliminating detention in the park with the utilization of a detention basin in Dead Creek. It became apparent that the required sewer repairs were substantial and would be very costly and that consideration should be given to obtaining Grant money, if possible. In order to be eligible for Grant consideration, an "Addendum to Facilities Plan and Infiltration-Inflow Analysis" was prepared by PHWA and Rhutasel. The report outlined past sewer system repairs and recommended improvements. The past sewer repair map and recommended improvement map were presented, as well as the list of repairs and their recommended costs. A description and original cost estimate for the improvements were also presented (a copy of both tables are included herein for reference). Grant money was applied for but none available at the time. \$8.5 million of bonds were issued and construction plans were prepared for Phase I, II, and IIIA of the listed recommended improvements with an estimated cost of \$4.7 million. Low bid received was approximately \$5.1 million. The Sauget Sanitary Development and Research Association recommended not to proceed with the work as bid on the basis that the bid was too high and that the outlined improvements in total were not necessary due to the reduction of industry's effluent. An application for a Build Illinois Grant was prepared by the Association with the assistance of PHWA and \$1.5 million Build Illinois Grant was awarded to the Village of Sauget.

WGK 1484233

Revised plans for the Terminal Railroad repair work was produced by PHWA. The Association hired a construction manager to do the work by hiring various subcontractors on a time and material basis. At approximately 25% into the project the progress of the work was not on time. The quality of the work was deficient and

serious safety problems were evidenced. Upon observing safety hazards, PHWA, through direct contact with Keeley Bros. Contracting Company and the Village of Sauget, immediately had these hazards corrected. The Village recommended Keeley Bros. as the General Contractor to complete the project under an emergency clause on a time and material basis and a percentage fee. The original plans and current plans that are being utilized were presented. The present status of Phase I, II, and IIIA modified project is approximately 70% complete with the Northern portion of the project 100% complete and flow diverted through the Northern side and repairs commencing on the Southern portion of the project. The amount of construction completed at the time of this meeting, including dewatering cost, is approximately \$2.8 million.

It was presented that the first three phases of some ten phases is well underway in their completion but that the other repair and improvements as outlined needs attention, however, these repairs and improvements do need re-evaluation. The Mayor and Village realize that storm water is still a problem within the residential area and that the storm water did substantially effect the existing combined sewer system. PHWA was authorized to prepare a storm water study for the entire Village of Sauget. It was presented that this study is underway and would take approximately 6 months for completion. It was also presented that the need for said study is evidenced by several unfavorable conditions as follows:

1. Overflow of combined storm water and sanitary sewage into Dead Creek (Dead Creek detention be eliminated by Cerro).
2. Residential sewer backup still exists.
3. Temporary pumping of combined wastes into open fields.
4. The cost of additional storm water lagoons at the P-Chem Plant.
5. The cost of unnecessary treatment of storm water.
6. With the absence of Dead Creek detention, the effect of sewer backup throughout the Village and industries due to the high intensity storms.

WKG 1484234

Synopsis of Sewer Status
Village of Sauget
Page Three of Three

Lastly, PHWA asked for the cooperation of all the industries in order to properly complete the storm water study and that a representative of each industry be established for coordination purposes. This concluded the presentation.

Respectfully submitted,

P. H. WEIS & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
12231 Manchester Road
St. Louis, Missouri 63131
March 5, 1990

PHW:de

WGK 1484235

TABLE 2
SEWER SYSTEM
REPAIR & IMPROVEMENTS
(1974-1984)

<u>ITEM NO.</u>	<u>DATE</u>	<u>GENERAL DESCRIPTION</u>	<u>TOTAL COST</u>
1	Sept. 1974	Manhole Repairs (Monsanto Ave.)	\$ 232,000
2	Aug. 1975	Diversion Box Repairs (Rt. 3, So. Monsanto Ave.)	563,000
3	Aug. 1976	Terminal Railroad Sewer Repairs (Phase I)	331,000
4	Aug. 1977	Emergency Repairs to Interceptor Box (Rt. 3)	17,000
5	Dec. 1977	Sewer Improvements (Falling Springs Ave.)	78,000
6	July 1979	Terminal Railroad Sewer Repairs (Phase II)	2,200,000
7	April 1980	Influent & Effluent Sewer Line @ WWTP (Phase I)	390,000
8	Sept. 1982	Manhole Repairs (Mississippi Ave. - Rt. 3 - Phase I & II)	1,650,000
9	March 1983	Misc. Sewer Repairs	115,000
10	April 1983	Misc. Sewer Repairs	458,000
11	May 1983	WWTP Effluent Box - Damage Evaluation	4,000
12	June 1983	Sewer Repairs (Monsanto Ave.)	<u>132,000</u>
		TOTAL	<u>\$6,170,000</u>

WGK 1484236

TABLE 18

RECAPITULATION OF PRELIMINARY COST ESTIMATES

<u>PHASE</u>		<u>COST</u>
I	Repairs at the T.R.R.A.	\$ 2,275,000*
II	Repairs at the T.R.R.A.	\$ 1,382,000*
III	Repairs at the T.R.R.A.	\$ 1,008,000*
III-A	Repairs at the T.R.R.A.	\$ 974,000*
IV	Replace Abandoned Line to P-Chem	\$ 1,315,000
V	New 42" Sewer To and Along Monsanto Avenue	\$ 4,894,000
VI	Grout 30" & 24" Sewer - Monsanto Avenue & South Along Route 3	\$ 1,704,000
VII	Grout 24", 30" and 36" Sewer to Dead Creek	\$ 1,506,000
VIII	Storm Water Retaining Dead Creek	\$ 2,116,000
IX	Insituform Res. Sewers	\$ 708,000
X	Abandon Box E	\$ 99,000
	PROJECT COST SUMMARY:	\$16,973,000

*Line and Boxes at T.R.R.A. 4-7 M.

WGK 1484237